Large eddy simulation of wind loads on solar panels Tokyo Polytechnic University Wind Engineering Research Center name [Jingxue Wang]

Wind loads is a major concern for roof-mounted Purpose solar panels and should be investigated for design. Wind pressure distributions and flow field Outline characteristics around solar panels are investigated by large eddy simulation using OpenFOAM. Both large-scale separated and reattached flow Result induced by roof edges and small-scale local vorticities near the solar panels determine the wind loads on solar panels.

Computing system:OCTOPUSnode-hour920 pointsmemory used60 GBvector per85 %parallelize2~4 nodes

